HP StorageWorks
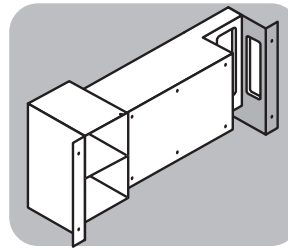
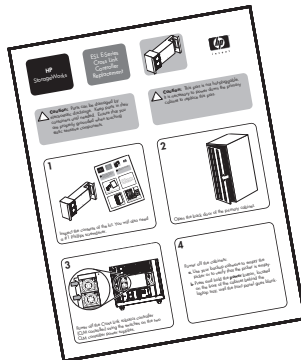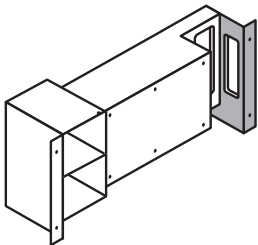ESL E-Series Cross Link Controller Replacement

⚠ **Caution:** Parts can be damaged by electrostatic discharge. Keep parts in their containers until needed. Ensure that you are properly grounded when touching static sensitive components.
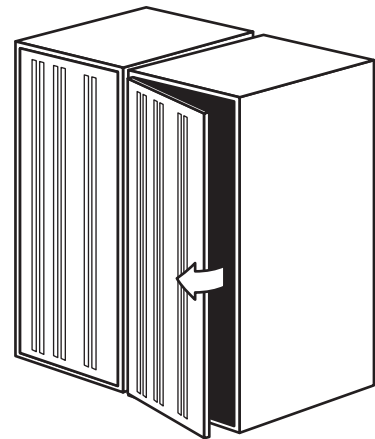
⚠ **Caution:** This part is not hot-pluggable. It is necessary to power down the primary cabinet and the CLM controller to replace this part.

1

Inspect the contents of the kit. You also need a #2 Phillips screwdriver.
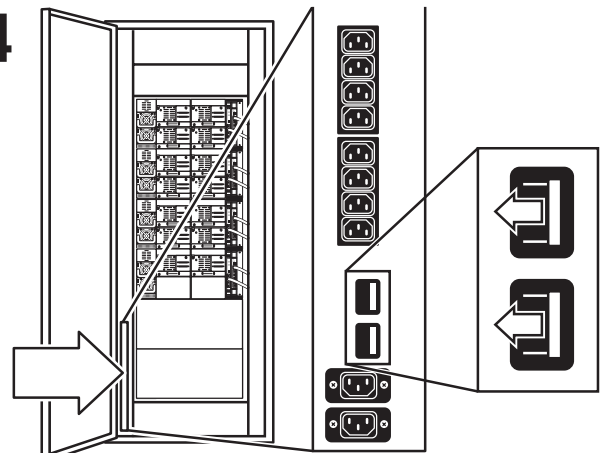
2

Open the back door of the primary cabinet.

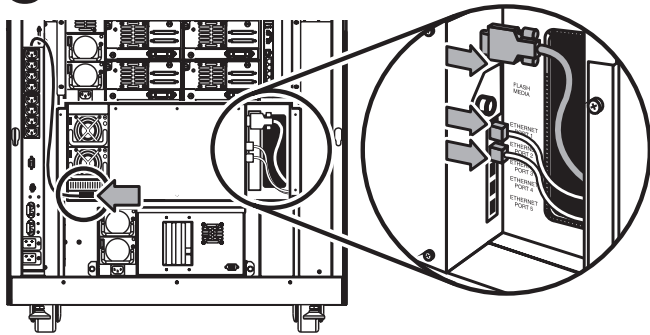## 3

Power off the primary cabinet:

a. Use your backup software to empty the picker or to verify that the picker is empty.

b. Press the **power** button, located on the front of the cabinet behind the laptop tray. Wait for the front panel to go blank.
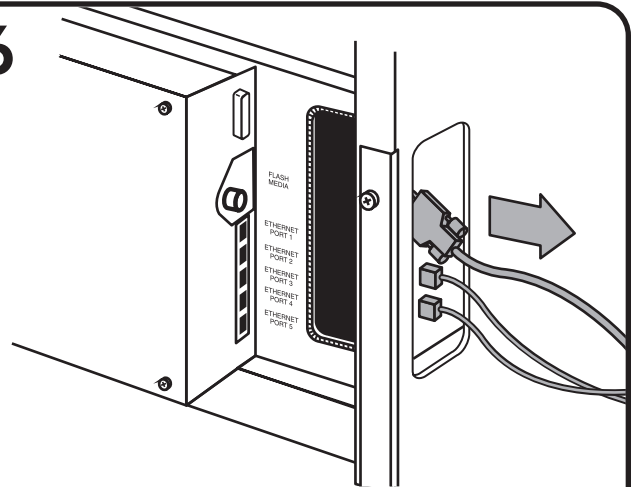
4

On the primary cabinet, flip the two breaker switches off (to the left) at the power distribution unit.
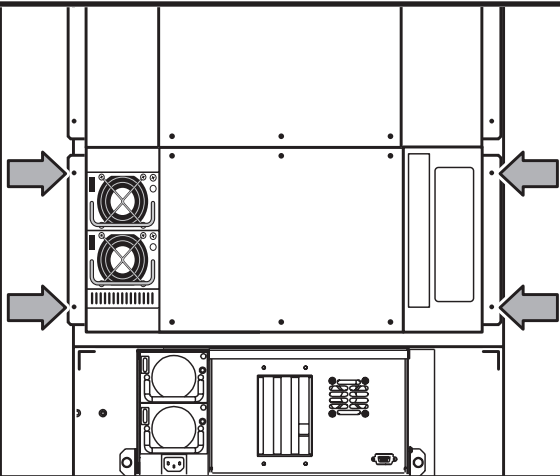
5

Disconnect the power cable, controller cable, and all Ethernet cables from the CLM controller, noting their locations for later re-connection.
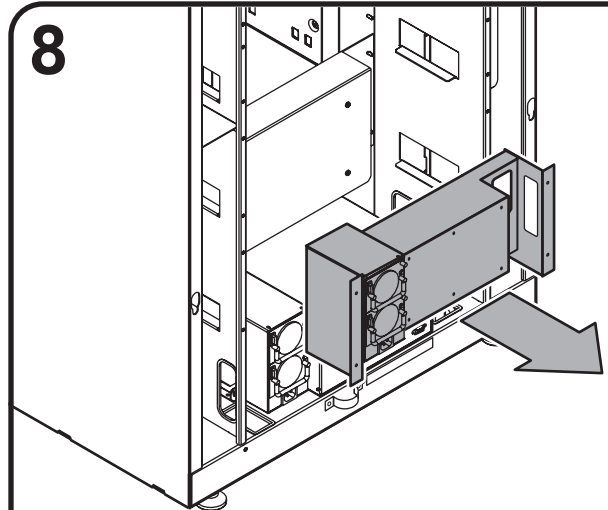
6

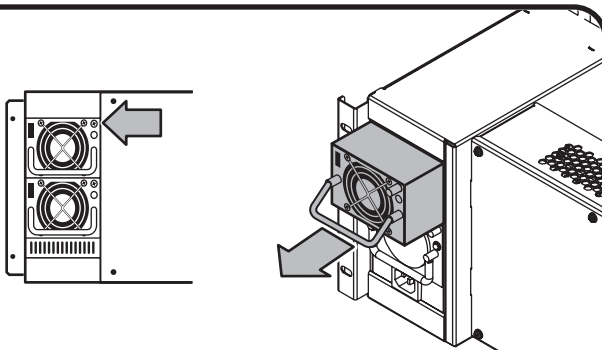Pull the cables out of the access hole on the right side of the CLM controller.

7

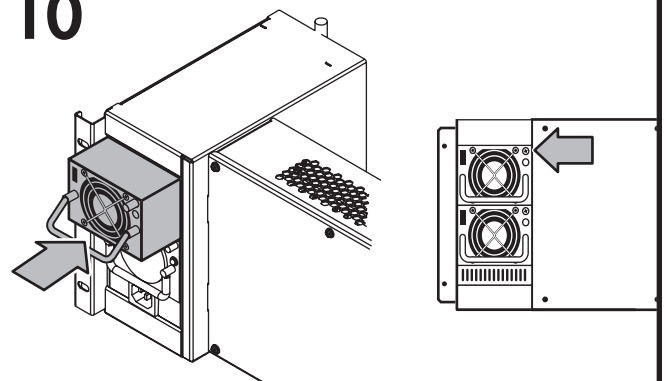Remove the 4 Phillips screws that secure the CLM controller to the cabinet frame.

8

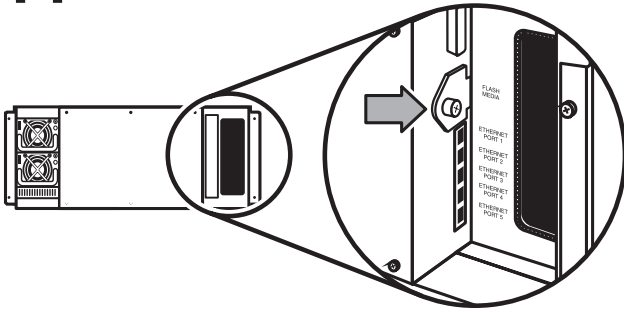Slide the CLM controller out of the cabinet.

9

For each power supply on the existing CLM controller, loosen the captive screw at the top right of the power supply using a #2 Phillips screwdriver. Pull the power supply handle to remove the power supply. Set the power supplies aside for installation in the new CLM controller.
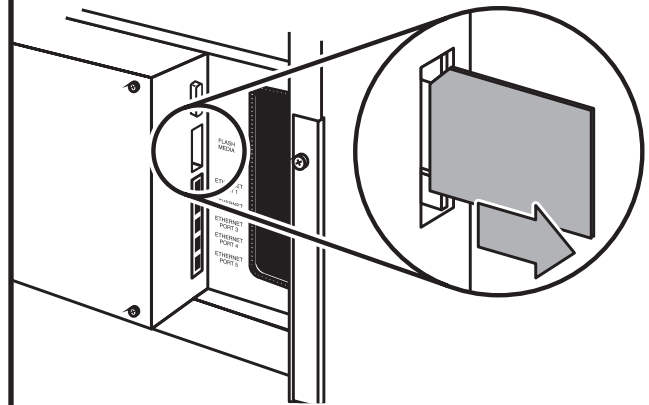
10

Insert the CLM controller power supplies into the power supply bays in the replacement CLM controller. Use a #2 Phillips screwdriver to tighten the captive screws.
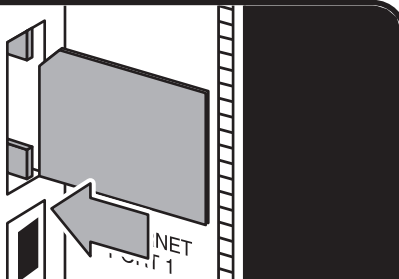
11

For both the existing and the replacement CLM controllers, locate the smart media cover panel and remove it by loosening the thumb screw that secures it to the CLM controller.

12

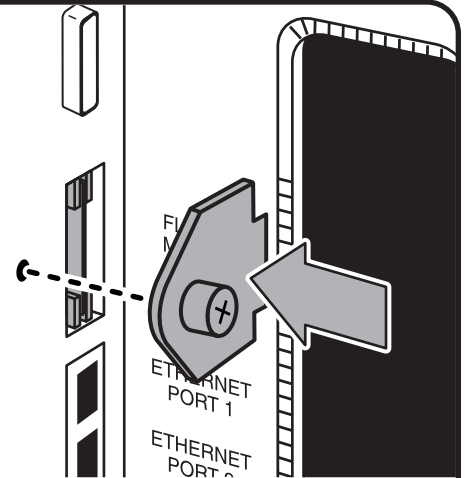Remove the smart media card from the replacement CLM controller and set it aside.

13

Remove the smart media card from the existing CLM controller and insert it into the smart media slot in the replacement CLM controller.
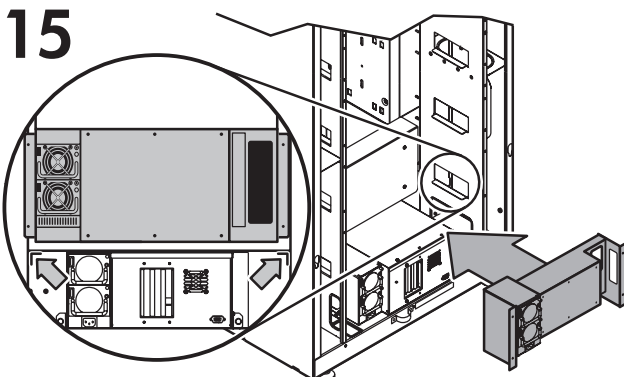- The metal on the smart media card should be facing away from you, with the label pointing to the left as you face the back of the cabinet.
- The smart media card fits against the green guides on the side nearest you.
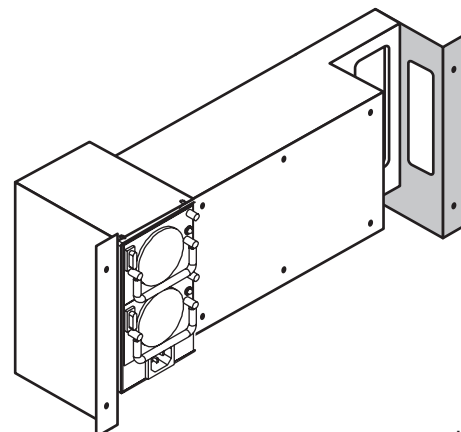
14

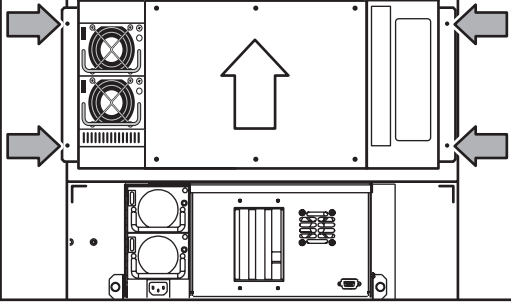Re-attach the smart media cover panel to the replacement CLM controller.

15

Slide the replacement CLM controller into the vacated bay from which the previous controller was removed, resting the base of the CLM controller on the support brackets on either side of the bay.
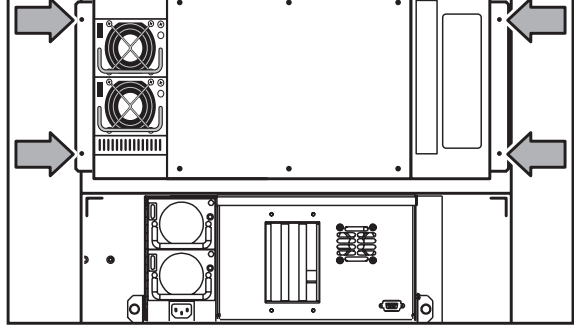

⚠ **Caution:** Handle the right side of the CLM controller gently, to avoid damage.
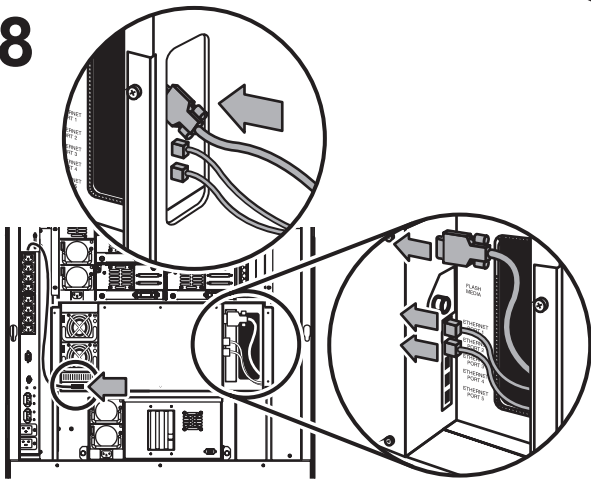
16

Lift the CLM controller slightly to align its mounting holes with the holes on the cabinet frame.
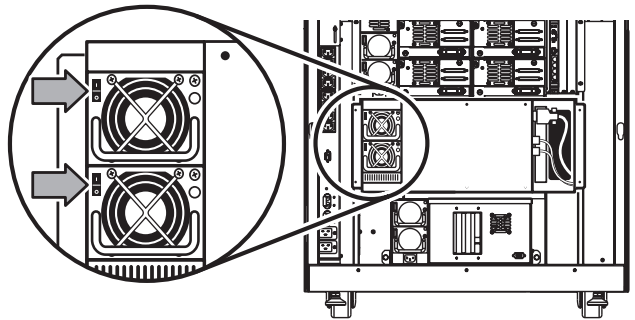
17

Secure the CLM controller to the cabinet frame using the 4 Phillips screws removed in Step 7.
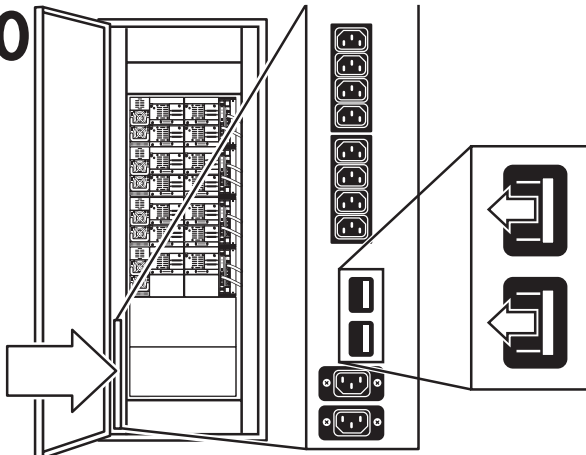
18

Re-route and connect the cables that were disconnected in Step 6.

19

Ensure that the CLM controller power switches are set to the on position.

20

On the primary cabinet, flip the two breaker switches on (to the right) at the power distribution unit.

21

Power on the primary cabinet:
  a. Verify that power cables are firmly in place.
  b. Press the **power** button located behind the laptop tray.
  c. After several minutes, verify that the state of the cabinet appears in the System State as "Online, OK".
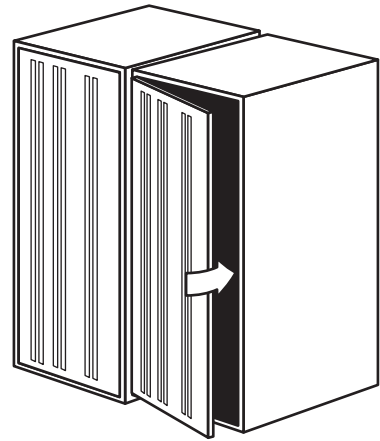
Note: If the System State is "Online, Warning" or "Online, Critical", check the Health Status screen. It may not be a CLM-related issue.

22

Ensure that the CLM controller is recognized by the library.
- Power off the CLM controller using the switches on the two CLM controller power supplies.
- Repeat Steps 11-14 of this procedure, removing the existing CLM smart media card and installing the replacement CLM smart media card.
- Power on the CLM controller using the switches on the two CLM controller power supplies.

23

Close the back door of the primary cabinet.

24

If you installed the replacement CLM smart media card, you need to upgrade your firmware using the Interface Manager's command-line interface. Refer to the *HP StorageWorks Interface Manager and Command View TL user guide* for detailed procedures on upgrading firmware.

After updating the firmware, verify that the CLM firmware matches the library firmware. From the OCP, select **Ops**, **CLM**, then **Details** to display the firmware version number.

Getting help

- HP product information:
  http://welcome.hp.com/country/us/en/prodserv/storage.html

- HP technical support and phone numbers:
  http://www.hp.com/support

- HP StorageWorks Library and Tape Tools (L&TT) diagnostic software:
  http://www.hp.com/support/tapetools

- Interface Manager and HP StorageWorks Command View TL:
  http://www.hp.com/support/cvtl

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